

CAM FOLLOWER FOR VALVE SYSTEM IN ENGINE

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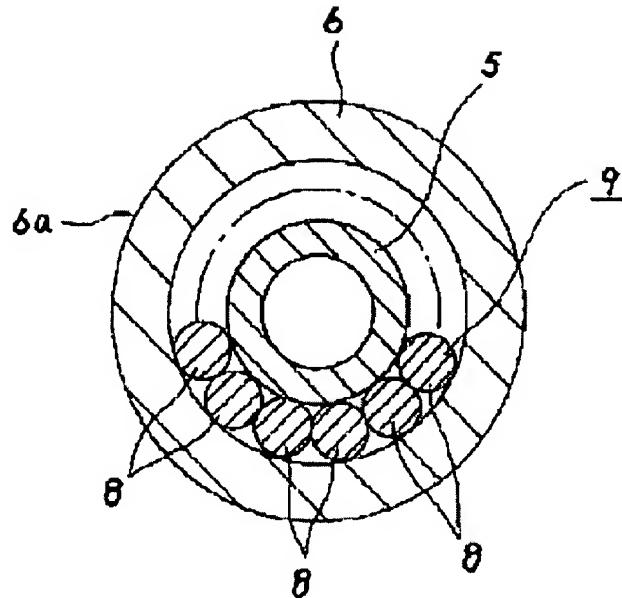
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Abstract of JP2000038906

PROBLEM TO BE SOLVED: To facilitate the design of a cam follower for a valve system in an engine capable of ensuring sufficient durability by restricting the maximum value of bending stress acted on a shaft in association with rotation of a camshaft to a specialized value or less. **SOLUTION:** A hollow pipe shaped shaft 5 is fixed between a pair of supporting wall parts in a hooking condition. A roller 6 is directly supported around the shaft 5, or it is rotatably supported through a radial roller bearing 9. The maximum value of bending stress acted on the shat 5 is restricted to 1.5 kgf/mm² or less. It is thus possible to prevent the damage such as cracking from generating on the shaft 5, before a life of an engine attains the longest life (about 2,000,000 km in a traveling distance). Since the maximum value of the bending stress is restricted to a constant rate, it is possible to facilitate the design of the cam follower for the valve system in the engine having sufficient durability.



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